

Perfect Lite I-Table Conversion

IESNA to CIE/SAASTAN



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1. INTRODUCTION

The **PLEI2C** conversion software easily transform photometric I-table files in the American IESNA format to the CIE/SAASTAN format. This latter format is specified as the only acceptable format for use with the AS/NZS1158 series of Standards for road lighting.

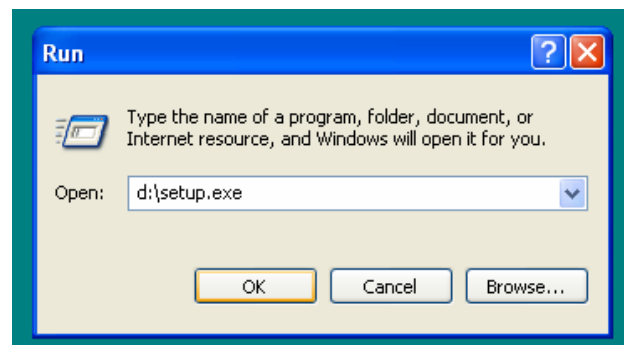
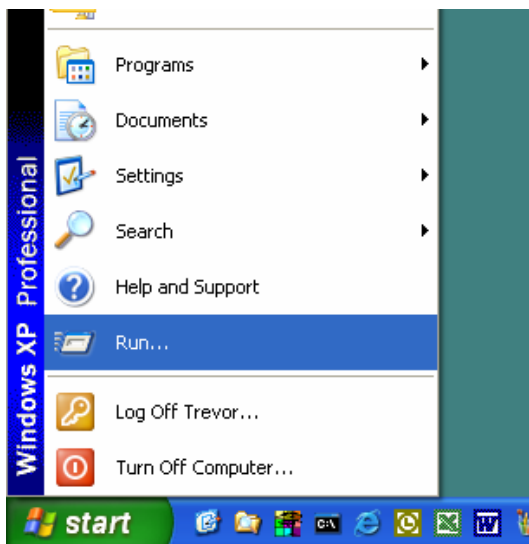
It is assumed that the user has basic knowledge of the operations of the PC and the Windows 98/NT/2000/XP operating system.

Before reading any further, briefly look through this manual and you will notice that screen snapshots have been used quite regularly. This has been done to make it easier for you to equate the manual with the operation of the software. The example used in the snapshots utilizes the sample photometric data supplied in the file named **SAMPLE.CIE**.

2. INSTALLING THE SOFTWARE

The software is provided on a CD-ROM and will require a short procedure to install the software correctly. Generally, when you put the CD-ROM in your CD drive the Setup program should start automatically after a short time. If not, then carry out the procedure as described below.

Click on the **Start** button, Select **Run...** from the menu and type **d:\setup.exe** (where **d:** is the drive letter of your CD-ROM) into the Run dialog box and then click **OK**.



Follow the subsequent instructions on the screen to correctly install the PleI2C software on your computer. Generally, it will only be necessary to click on the **Next** button several times to carry out the installation.

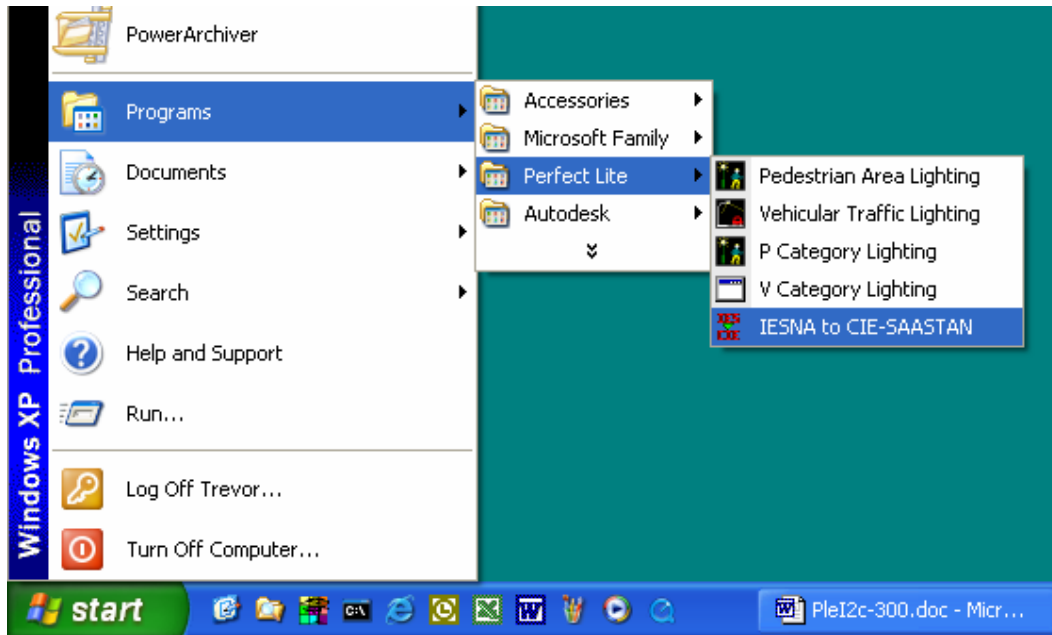
It is recommended you choose the default folder (**c:\Program Files\Perfect Lite\IESNA to CIE/SAASTAN**) in which to install the software. If you install it in another drive and/or folder then please make a note of the location below.

PLEI2C software installed in:

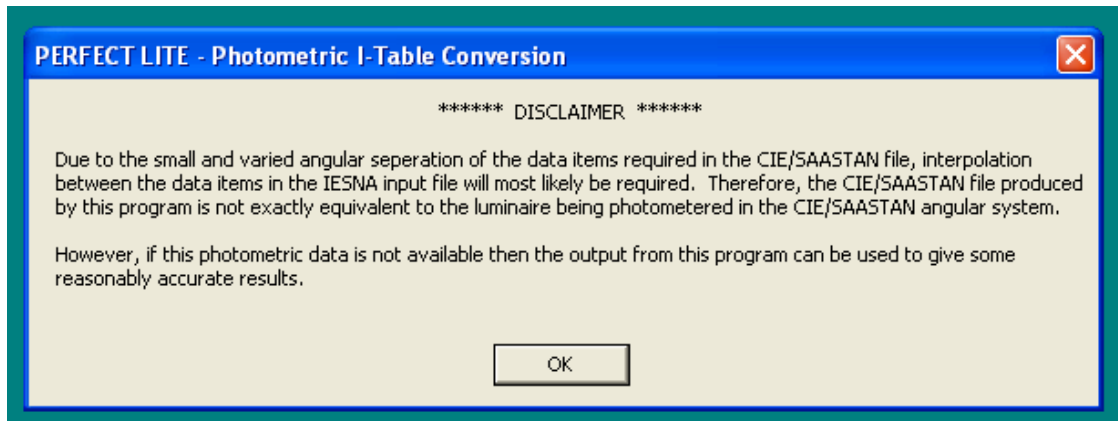
.....

3. STARTING THE SOFTWARE

Once installed, click on the **Start** button, select **Programs** then **Perfect Lite** then **IESNA to CIE/SAASTAN** from the menu.



The window as shown below should be displayed from where you can continue to operate the software. If you are unfamiliar with the software then it is suggested you undertake the 'Brief tour' of the software as described in the next section of this manual.



4. BRIEF TOUR OF THE SOFTWARE

The **PLEI2C** conversion software easily transform photometric I-table files in the American IESNA format to the CIE/SAASTAN format. This latter format is specified as the only acceptable format for use with the AS/NZS1158 series of Standards for road lighting.

Below is a sample of an IESNA I-table file:-

```

IESNA:LM-63-2002
[TEST] Test Luminaire
[TESTLAB] Xcel Photo Lab
[ISSUEDATE] 01-01-2004
[MANUFAC] U-Beaut Lighting Company
[LUMCAT] SLPE-4567
[LUMINAIRE] Sample Street Light Luminaire
[LAMPCAT] HPS250 Clear
[LAMP] 250 watt HPS
TILT=NONE
1      827      1      20      13      1      2      0.160  0.250  0.065
1      1      39.53
0      5      15      25      35      45      55      65      75      85      95      105
115    125    135    145    155    165    175    180
0      30      60      90      120    150    180    210    240    270    300    330
360
346    364    340    269    187    116    69      37      13      3      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    355    324    264    186    120    75      48      33      21      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    348    310    239    173    128    99      78      65      48      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    333    278    207    152    121    101     86      73      58      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    326    259    199    154    127    110     94      83      65      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    322    247    183    142    117    97      82      69      56      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    317    245    179    140    113    90      71      55      37      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    318    246    183    141    114    96      81      69      54      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    329    260    191    145    119    106     98      87      69      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    343    289    218    172    143    127     112     94      74      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    351    316    247    189    149    126     111     92      69      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    358    329    257    182    121    79      54      38      23      0      0
0      0      0      0      0      0      0      0      0      0      0      0
346    364    340    269    187    116    69      37      13      3      0      0
0      0      0      0      0      0      0      0      0      0      0      0
    
```

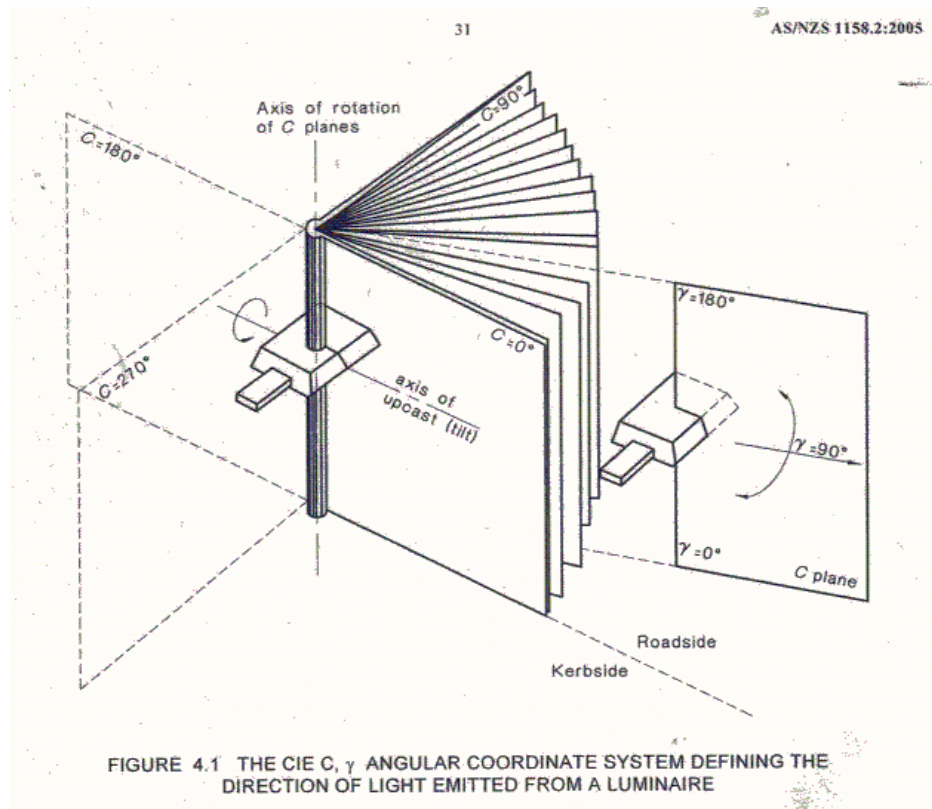
Below is a sample of a CIE/SAASTAN I-table file (not the converted version of the one above):-

```

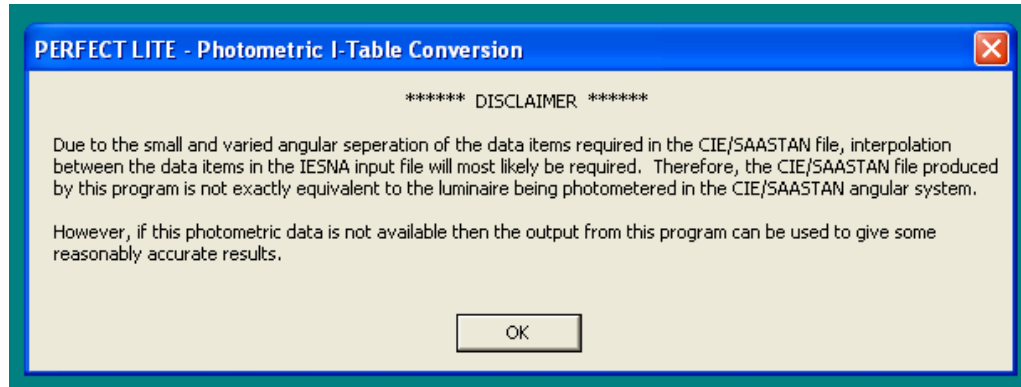
1      1      0      XYZ-1234 HPS250
189 189 189 189 189 189 189 189 189 189 189 189 189 189 189 189 189 189 189
189 189 189 189 189 189 189 189 189 189 185 186 189 190 190 188 187
188 190 189 188 187 187 191 190 190 190 188 186 185 184 182 178 177
174 170 165 163 167 172 177 179 179 180 186 191 194 198 203 206 201
207 208 208 205 200 194 186 179 172 166 157 145 135 121 136 152 161
166 168 172 180 188 202 215 224 233 238 237 233 225 215 205 192 177
167 160 153 141 126 113 95 113 135 140 142 145 152 165 179 197 215
233 243 248 243 236 226 212 194 177 159 146 136 130 121 104 97 86
96 110 120 126 127 138 147 164 180 212 235 251 252 243 225 203 182
162 143 128 117 109 103 92 82 73 65 83 102 110 116 124 131 142
159 183 211 235 254 260 242 218 193 166 140 123 111 104 97 92 82
68 61 61 79 96 105 113 120 130 145 165 188 213 238 257 263 244
218 195 168 140 123 110 103 98 90 75 65 60 59 75 94 104 109
117 130 149 170 192 217 242 260 268 249 224 199 168 143 125 113 105
100 94 82 65 60 61 72 89 102 107 115 131 152 174 197 222 247
263 269 252 228 200 170 147 130 118 109 102 93 80 66 60 65 70
80 94 104 116 131 153 176 201 227 250 265 271 256 230 201 175 154
137 124 112 102 93 80 67 62 63 68 78 93 103 114 132 153 177
202 226 247 265 272 257 230 197 175 157 140 130 116 104 93 79 68
62 62 69 77 91 100 113 130 151 176 200 223 243 265 267 258 229
196 175 160 142 133 120 105 94 79 71 62 61 69 77 90 98 111
    
```

128	149	173	195	215	239	263	267	260	229	195	174	160	144	134	122	107
95	80	73	61	60	69	77	89	97	110	126	145	166	184	205	233	261
276	265	233	198	173	157	144	133	121	107	95	80	75	60	62	68	75
84	94	104	119	136	154	170	194	228	265	292	288	248	207	170	148	139
129	120	104	93	80	70	59	65	66	73	82	90	98	110	123	138	167
183	221	278	320	329	278	218	167	136	125	118	106	96	88	78	66	58
67	63	65	72	80	89	98	108	120	139	169	214	292	363	360	310	230
160	120	107	102	95	87	80	70	66	54	68	61	62	66	70	74	81
90	101	122	151	205	272	356	345	290	219	145	104	89	80	78	76	71
60	63	45	58	53	51	53	56	58	65	71	80	93	123	180	205	275
265	205	173	121	84	74	61	60	62	60	52	56	37	43	39	38	38
40	42	44	50	56	65	82	125	137	158	154	115	98	85	59	52	35
39	44	40	35	33	25	22	22	23	24	24	24	25	30	35	41	50
61	75	78	77	67	53	48	37	33	22	22	20	18	18	17	16	14
14	15	16	15	15	17	21	25	29	33	41	45	45	51	47	37	31
26	20	15	14	13	12	11	10	10	10	10	10	9	10	11	12	13
18	21	24	27	30	30	31	30	25	21	20	15	11	10	9	9	8
8	8	8	8	8	8	9	9	9	10	12	14	19	21	22	22	22
20	19	15	14	11	7	7	6	6	6	6	6	5	5	5	5	5
5	6	7	9	12	15	16	16	17	17	16	14	12	11	8	6	5
5	5	4	4	4	4	4	4	4	4	4	4	5	7	11	13	14
14	14	14	13	11	9	7	6	5	4	4	4	3	3	3	3	3
3	3	3	3	3	4	6	9	11	11	12	12	12	11	9	7	5
4	4	3	3	3	3	2	3	3	2	2	2	2	3	3	3	5
7	10	10	10	10	9	9	8	6	4	3	3	3	3	2	2	2
2	2	2	2	2	2	2	2	2	3	6	8	8	8	8	8	7
7	5	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1
1	2	2	3	6	6	7	7	7	6	6	4	3	2	1	1	1
1	1	1	1	1	1	0	0	0	1	1	1	1	2	2	2	3
3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

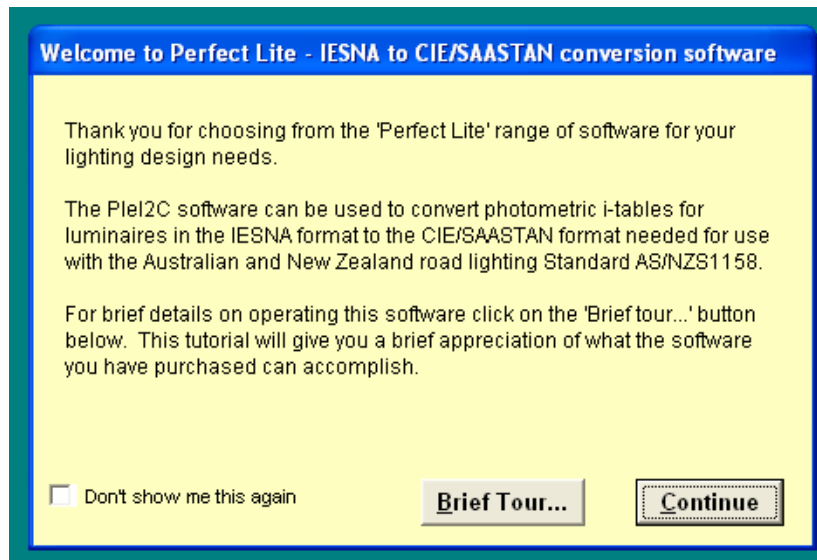
Below is a representation of the angular system used in the CIE/SAASTAN format (reproduced from AS/NZS1158.2:2005)



When the program starts a Disclaimer message will appear as shown below. This is just a short reminder of the limitations of the data converted by this software.



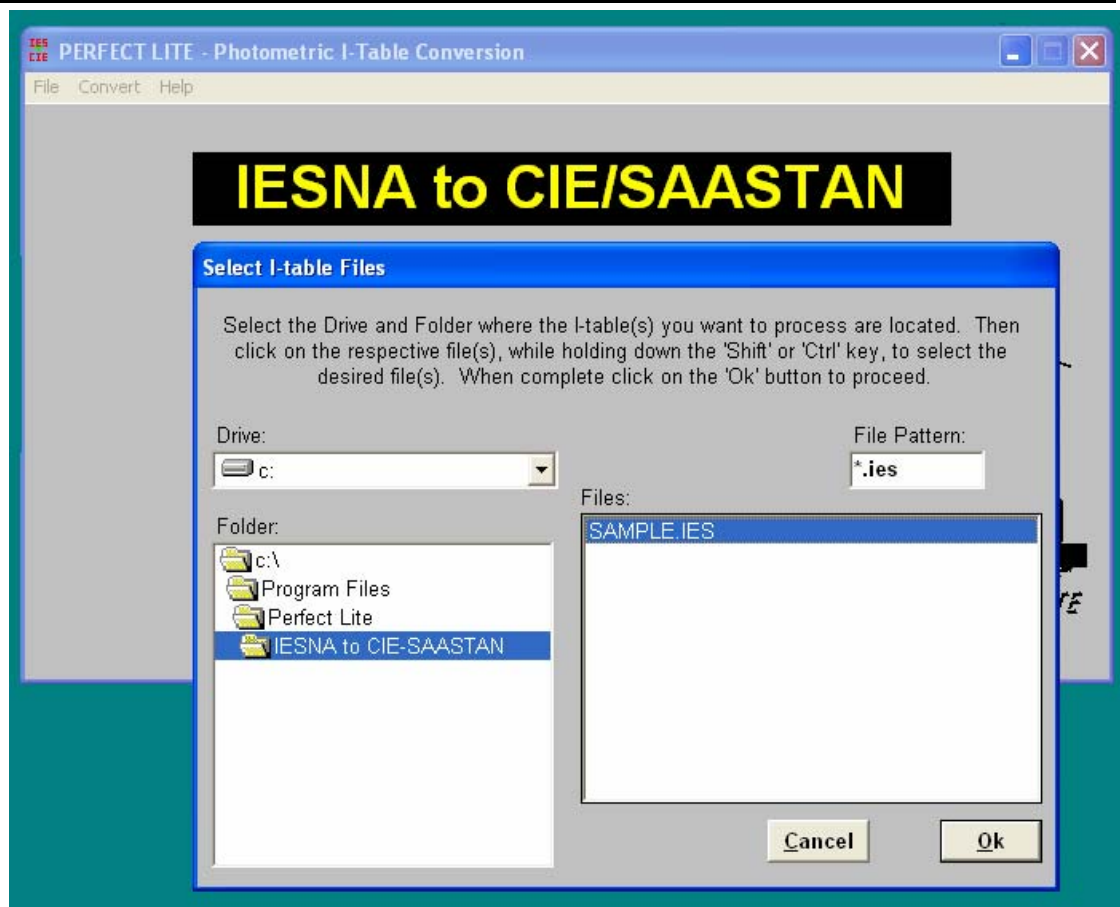
Click the **Ok** button to proceed on with the software, the Welcome screen will then appear.



On this screen you can:-

1. Click on the 'tick' box to the left of the **Don't show me this again** so this Welcome screen will not appear next time you run the software.
2. Click on the **Brief Tour...** button which will bring up this tutorial.
3. Click on the **Continue** button which will go onto the next stage of the software.

With selection 3, a dialog box will then appear where you select one or more I-table files to convert.

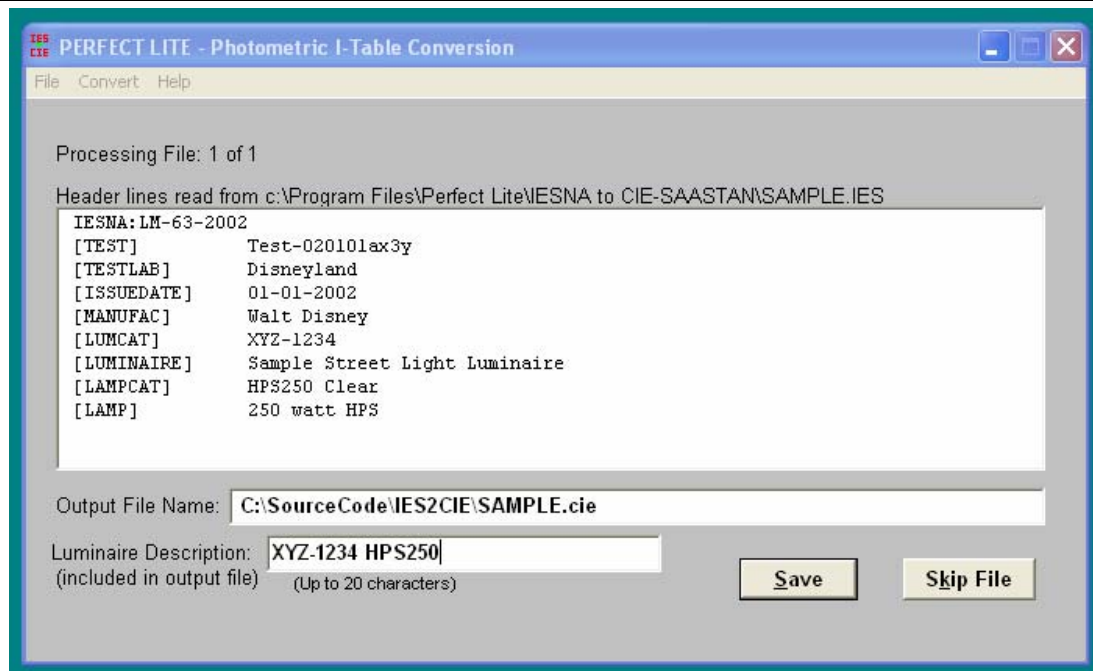


If necessary, click on the **Drive:** and/or **Folder:** areas to move to the location of the required files. By default, the program will display the drive and folder from where the program is started or where you last located files. The **File Pattern:** box can be changed to display only files matching a certain type eg. default type is *.ies which is the normal file extension for IESNA formatted I-table data.

In the **Files:** area you can select one or more files by clicking on the respective name with the mouse cursor. If more than one file is required then you will also have to hold down either the **Shift** or **Ctrl** key on the keyboard. Using the **Shift** key will select a range of files and the **Ctrl** key will select individual files one at a time.

If you just want to select one file then you can simply double-click on the required file to proceed otherwise you will have to click the **OK** button to continue the program.

The program will then process the selected files one at a time. The screen below will appear for each file. This screen is used to nominate the Luminaire Description and the name of the file where the converted data is to be saved.

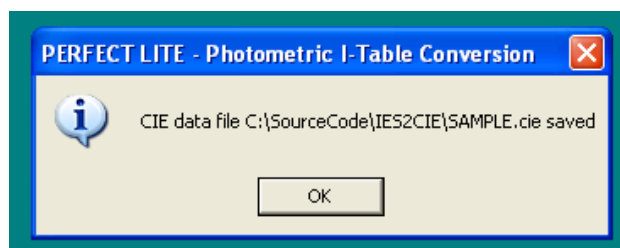


The top section of the window displays the header lines read from the nominated file. These can be used to fill in the **Luminaire Description** field further down the screen. The descriptive information in the IESNA file can be quite lengthy but as you can see the CIE/SAASTAN format only allows a maximum of 20 characters.

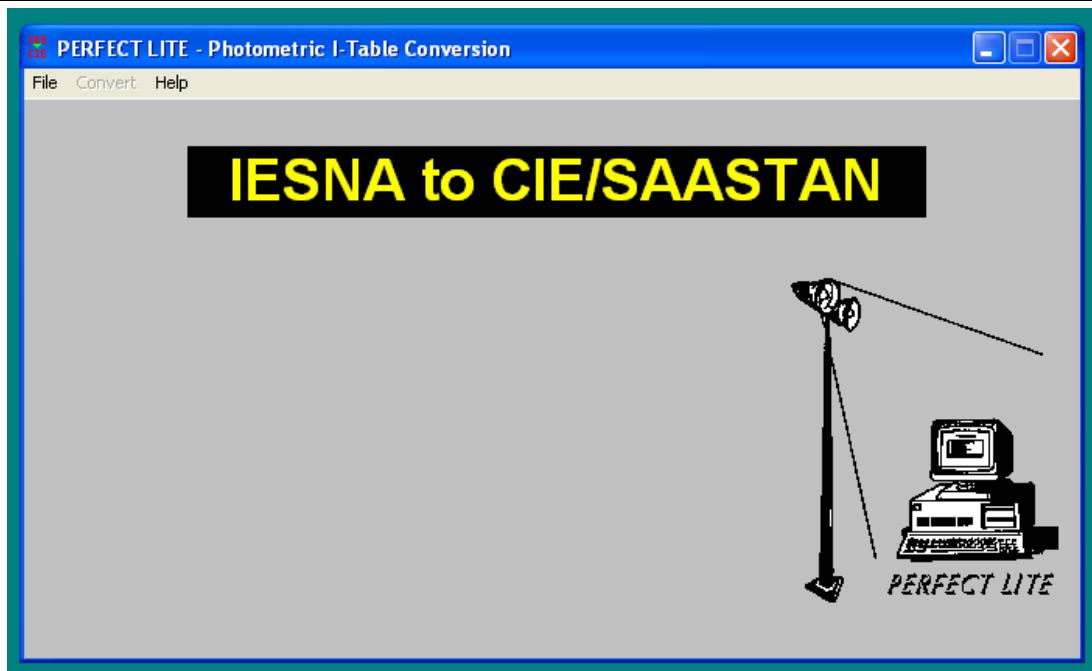
By default, the **Output File Name** will be the same name and location as the input file but with a file extension of **.cie**, this being the usual one for CIE/SAASTAN files. Of course, you can change the file name and location, if you want. If you change the location (folder name) then this name will be remembered for subsequent files.

When you have completed the **Output File Name** and **Luminaire Description** fields click on the **Save** button for the actual conversion process to be completed. Should an error be encountered then an appropriate message will be displayed, respond as necessary to eliminate the error. Alternatively, if you do not want to convert the current file then click on the **Skip File** button.

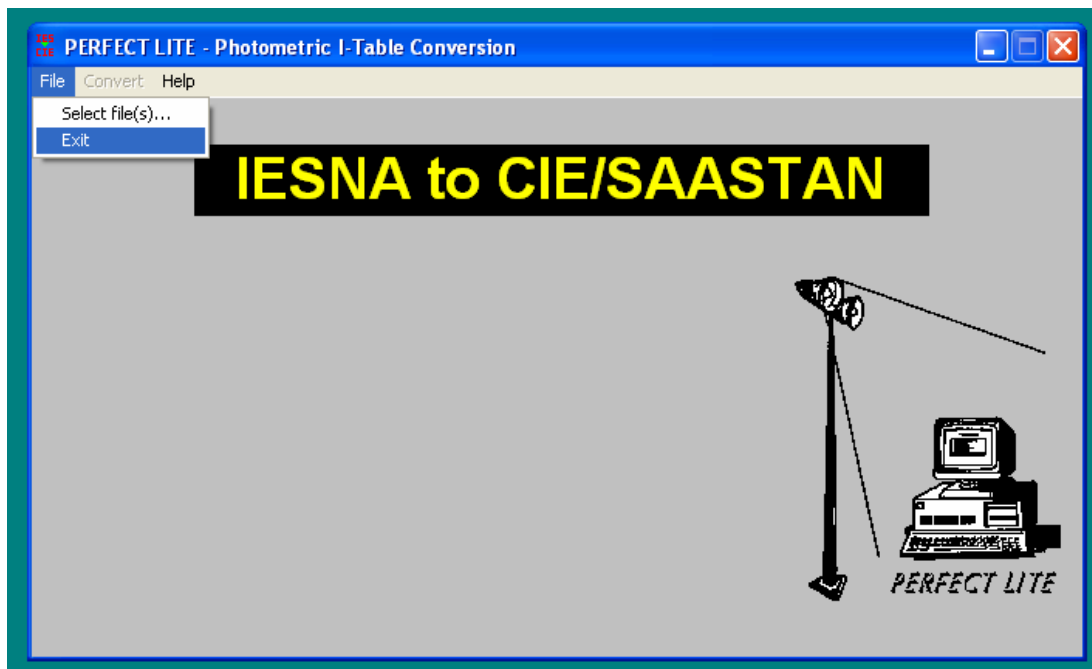
If the conversion is successful a message similar to that below will be displayed.



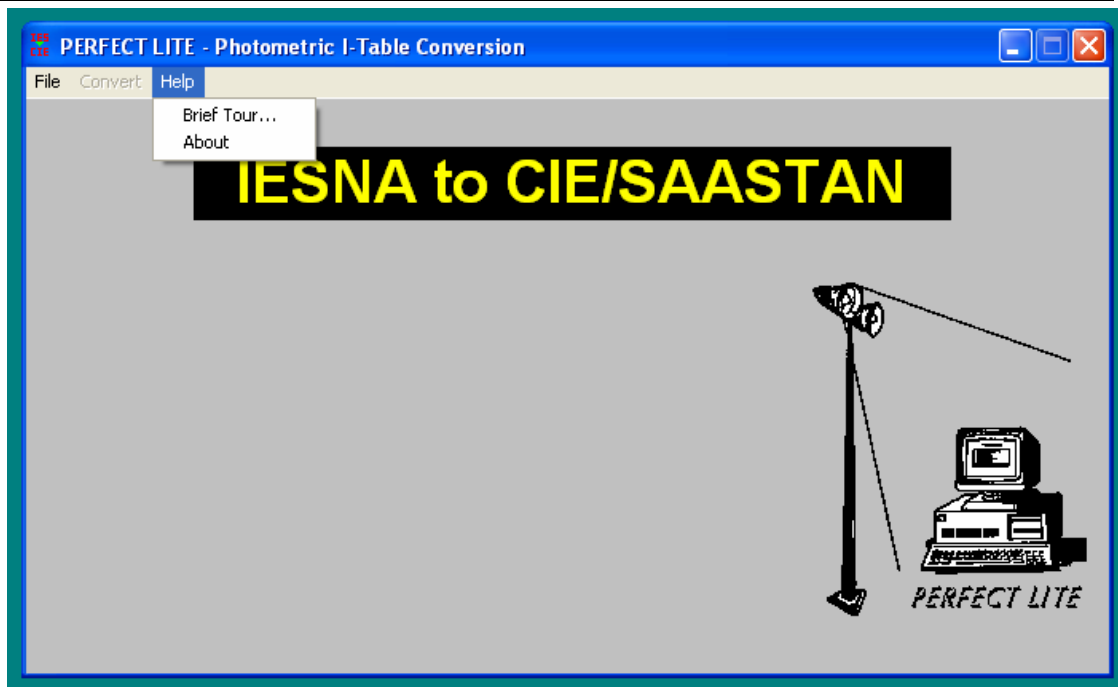
In this case click the **Ok** button to proceed onto the next file. When you have completed all the files to be converted the screen will return to that shown below.



From here you can select from the **File** menu to **Exit** the software or select more files to convert.



Alternatively, you can view the **Brief Tutorial** or find out **About** the version number of the software and contact details for the developer.



Well that's about all there is to the software.

Should you encounter any problems using this software or would like to offer suggestions on future enhancements then please contact Trevor Caswell on Ph.: 0417 732 763 or send an email to trevor@perfectlite.com

Trevor Caswell
August 2008